



Day : Sunday
Date: 3/6/2005
Time: 14:43:09

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Day : Sunday
Date: 3/6/2005
Time: 14:57:36

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fraits

thomas

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```
'      Set  Items  Description
---  ----  -
? set hi ;set hi
HIGHLIGHT set on as ''
HIGHLIGHT set on as ''
? begin 5,6,55,154,155,156,312,399,biotech,biosci
>>>      135 is unauthorized
```

Set	Items	Description
?	AAV? or adeno (n)	associated
>>>	Unrecognizable Command	
? s	AAV? or adeno (n)	associated
	17347	AAV?
	59206	ADENO
	9	ASCOCIATED
	1	ADENO(N)ASCOCIATED
S1	17348	AAV? OR ADENO (N) ASCOCIATED
? s s1 and rep (5n)	cap (5n)	different
	17348	S1
	30592	REP
	173432	CAP
	10054698	DIFFERENT
	10	REP(5N)CAP(5N)DIFFERENT
S2	10	S1 AND REP (5N) CAP (5N) DIFFERENT
? rd s2		
>>>	Duplicate detection is not supported for File 391.	

>>>Records from unsupported files will be retained in the RD set.

...completed examining records

S3 4 RD S2 (unique items)

? d s3/3/1-4

Display 3/3/1 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2005 BIOSIS. All rts. reserv.

0011433107 BIOSIS NO.: 199800227354

Factor influencing recombinant adeno-associated virus production

AUTHOR: Salvetti Anna; Oreve Soizic; Chadeuf Gilliane; Favre David; Cherel

Yan; Champion-Arnaud Patrick; David-Ameline Jacques; Moullier Philippe

(Reprint)

AUTHOR ADDRESS: Lab. Therapie Genique, CHU Hotel-Dieu, Bat. Jean Monnet, 30

Avenue Jean Monnet, 44035 Nantes Cedex 01, France**France

JOURNAL: Human Gene Therapy 9 (5): p695-706 March 20, 1998 1998

MEDIUM: print

ISSN: 1043-0342

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

- end of record -

?

Display 3/3/2 (Item 1 from file: 357)

DIALOG(R)File 357:Derwent Biotech Res.

(c) 2005 Thomson Derwent & ISI. All rts. reserv.

0332895 DBR Accession No.: 2004-05187 PATENT

New polynucleotides comprising parvovirus rep coding sequences and

parvovirus cap coding sequences, useful in producing higher stocks of

hybrid parvovirus vectors for delivering therapeutic nucleic acids to a

subject - recombinant protein production and vector expression in host

cell for use in gene therapy

AUTHOR: SAMULSKI R J; RABINOWITZ J E

PATENT ASSIGNEE: UNIV NORTH CAROLINA 2003

PATENT NUMBER: WO 2003104392 PATENT DATE: 20031218 WPI ACCESSION NO.:

2004-062324 (200406)

PRIORITY APPLIC. NO.: US 341919 APPLIC. DATE: 20011218

NATIONAL APPLIC. NO.: WO 2002US38423 APPLIC. DATE: 20021202

LANGUAGE: English

- end of record -

?

Display 3/3/3 (Item 2 from file: 357)

DIALOG(R)File 357:Derwent Biotech Res.

(c) 2005 Thomson Derwent & ISI. All rts. reserv.

0323488 DBR Accession No.: 2003-24628 PATENT
New helper construct for packaging adeno-associated virus, useful for
preparing viral particles for gene therapy, encodes **Cap** and
Rep genes of **different** serotypes - virus vector
construction in packaging cell culture for disease therapy
AUTHOR: HOERER M; DUBIELZIG R; RIES S; KOSFELD-BERGAUER M
PATENT ASSIGNEE: MEDIGENE AG 2003
PATENT NUMBER: WO 200374686 PATENT DATE: 20030912 WPI ACCESSION NO.:
2003-690032 (200365)
PRIORITY APPLIC. NO.: DE 1010139 APPLIC. DATE: 20020307
NATIONAL APPLIC. NO.: WO 2003EP2351 APPLIC. DATE: 20030307
LANGUAGE: German

- end of record -

?
Display 3/3/4 (Item 3 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.
(c) 2005 Thomson Derwent & ISI. All rts. reserv.

0291621 DBR Accession No.: 2002-13468 PATENT
Host cell for packaging recombinant adeno-associated virus, useful as
vectors for gene therapy, contains separate constructs for Rep and Cap
viral proteins - recombinant adeno-associated virus vector-mediated
gene transfer and expression in HeLa cell culture for use in melanoma
and ovarian cancer gene therapy
AUTHOR: BERTRAN J; MOEBIUS U; HOERER M; REHBERGER B
PATENT ASSIGNEE: MEDIGENE AG 2002
PATENT NUMBER: WO 200220748 PATENT DATE: 20020314 WPI ACCESSION NO.:
2002-383053 (200241)
PRIORITY APPLIC. NO.: DE 1044384 APPLIC. DATE: 20000908
NATIONAL APPLIC. NO.: WO 2001EP10370 APPLIC. DATE: 20010907
LANGUAGE: German

- end of record -

? d s3/9/1
Display 3/9/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2005 BIOSIS. All rts. reserv.

0011433107 BIOSIS NO.: 199800227354
Factor influencing recombinant adeno-associated virus production
AUTHOR: Salvetti Anna; Oreve Soizic; Chadeuf Gilliane; Favre David; Cherel
Yan; Champion-Arnaud Patrick; David-Ameline Jacques; Moullier Philippe
(Reprint)
AUTHOR ADDRESS: Lab. Therapie Genique, CHU Hotel-Dieu, Bat. Jean Monnet, 30
Avenue Jean Monnet, 44035 Nantes Cedex 01, France**France
JOURNAL: Human Gene Therapy 9 (5): p695-706 March 20, 1998 1998
MEDIUM: print
ISSN: 1043-0342
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: Recombinant adeno-associated virus (rAAV) is produced by
transfecting cells with two constructs: the rAAV vector plasmid and the

-more-

?
Display 3/9/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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rep-cap plasmid. After subsequent adenoviral infection, needed for rAAV
replication and assembly, the virus is purified from total cell lysates
through CsCl gradients. Because this is a long and complex procedure, the
precise titration of rAAV stocks, as well as the measure of the level of
contamination with adenovirus and rep-positive **AAV**, are essential
to evaluate the transduction efficiency of these vectors in vitro and in

vivo. Our vector core is in charge of producing rAAV for outside investigators as part of a national network promoted by the Association Francaise contre les Myopathies/Genethon. We report here the characterization of 18 large-scale rAAV stocks produced during the past year. Three major improvements were introduced and combined in the rAAV production procedure: (i) the titration and characterization of rAAV stocks using a stable rep-cap HeLa cell line in a modified Replication Center Assay (RCA); (ii) the use of **different rep-cap** constructs to provide **AAV** regulatory and structural proteins; (iii) the use of an adenoviral plasmid to provide helper functions needed for rAAV replication and assembly. Our results indicate that: (i) rAAV yields

-more-

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Display 3/9/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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ranged between 10¹¹ to 5 X 10¹² total particles; (ii) the physical particle to infectious particle (measured by RCA) ratios were consistently below 50 when using a rep-cap plasmid harboring an ITR-deleted **AAV** genome; the physical particle to transducing particle ratios ranged between 400 and 600; (iii) the use of an adenoviral plasmid instead of an infectious virion did not affect the particles or the infectious particles yields nor the above ratio. Most of large-scale rAAV stocks (7/9) produced using this plasmid were free of detectable infectious adenovirus as determined by RCA; (iv) all the rAAV stocks were contaminated with rep-positive *****AAV***** as detected by RCA. In summary, this study describes a general method to titrate rAAV, independently of the transgene and its expression, and to measure the level of contamination with adenovirus and rep-positive *****AAV*****. Furthermore, we report a new production procedure using adenoviral plasmids instead of virions and resulting in rAAV stocks with undetectable adenovirus contamination.

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Display 3/9/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2005 BIOSIS. All rts. reserv.
DESCRIPTORS:

MAJOR CONCEPTS: Molecular Genetics--Biochemistry and Molecular Biophysics
BIOSYSTEMATIC NAMES: Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia; Parvoviridae--ssDNA Viruses, Viruses, Microorganisms
ORGANISMS: HeLa (Hominidae); 293 (Hominidae); adeno-associated virus (Parvoviridae)--assembly, recombinant, replication
COMMON TAXONOMIC TERMS: Animals; Chordates; Humans; Mammals; Primates; Vertebrates; Single-Stranded DNA Viruses; Microorganisms; Viruses
CHEMICALS & BIOCHEMICALS: adenoviral vector plasmid; rep-cap plasmid
METHODS & EQUIPMENT: replication center assay--genetic method

CONCEPT CODES:

31500 Genetics of bacteria and viruses
02508 Cytology - Human
10060 Biochemistry studies - General

BIOSYSTEMATIC CODES:

86215 Hominidae
03205 Parvoviridae

- end of record -

? s s1 and rep and cap and serotype (5n) different

17348	S1
30592	REP
173432	CAP
125176	SEROTYPE
10054698	DIFFERENT
3403	SEROTYPE(5N)DIFFERENT
S4	15 S1 AND REP AND CAP AND SEROTYPE (5N) DIFFERENT

? rd s4

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

...completed examining records

S5 7 RD S4 (unique items)

? d s5/3/1-7

Display 5/3/1 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2005 BIOSIS. All rts. reserv.

0014124023 BIOSIS NO.: 200300082742

Marker rescue of adeno-associated virus (AAV) capsid mutants: A novel approach for chimeric ***AAV*** production.

AUTHOR: Bowles Dawn E; Rabinowitz Joseph E; Samulski R Jude (Reprint)

AUTHOR ADDRESS: Gene Therapy Center, University of North Carolina at Chapel Hill, 7119 Thurston-Bowles, CB 7352, Chapel Hill, NC, 27599-7352, USA**
USA

AUTHOR E-MAIL ADDRESS: rjs@med.unc.edu

JOURNAL: Journal of Virology 77 (1): p423-432 January 2003 2003

MEDIUM: print

ISSN: 0022-538X (ISSN print)

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

- end of record -

?

Display 5/3/2 (Item 2 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2005 BIOSIS. All rts. reserv.

0013130353 BIOSIS NO.: 200100302192

Recombinant adeno-associated virus (rAAV) serotyped vectors: Effects on the expression of factor IX in mice

AUTHOR: Chao Hengjun (Reprint); Walsh Christopher E (Reprint)

AUTHOR ADDRESS: Gene Therapy Center, University of North Carolina, Chapel Hill, NC, USA**USA

JOURNAL: Blood 96 (11 Part 1): p525a November 16, 2000 2000

MEDIUM: print

CONFERENCE/MEETING: 42nd Annual Meeting of the American Society of Hematology San Francisco, California, USA December 01-05, 2000; 20001201

SPONSOR: American Society of Hematology

ISSN: 0006-4971

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

- end of record -

?

Display 5/3/3 (Item 1 from file: 98)

DIALOG(R)File 98:General Sci Abs/Full-Text

(c) 2005 The HW Wilson Co. All rts. reserv.

03805299 H.W. WILSON RECORD NUMBER: BGSA98055299 (USE FORMAT 7 FOR FULLTEXT)

How do animal DNA viruses get to the nucleus?.

Kasamatsu, H

Nakanishi, A

Annual Review of Microbiology v. 52 (1998) p. 627-86

SPECIAL FEATURES: bibl il ISSN: 0066-4227

LANGUAGE: English

COUNTRY OF PUBLICATION: United States

WORD COUNT: 30861

- end of record -

?

Display 5/3/4 (Item 1 from file: 266)

DIALOG(R)File 266:FEDRIP

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00368589

IDENTIFYING NO.: 5P01HL059412-08 9001 AGENCY CODE: CRISP
CORE--VECTOR
PRINCIPAL INVESTIGATOR: SNYDER, RICHARD O
ADDRESS: UNIVERSITY OF FLORIDA PO BOX 100266 GAINESVILLE, FL 32610
PERFORMING ORG.: UNIVERSITY OF FLORIDA, GAINESVILLE, FLORIDA
SPONSORING ORG.: NATIONAL HEART, LUNG, AND BLOOD INSTITUTE
DATES: 2009/30/97 TO 2008/31/07 FY : 2004

- end of record -

?

Display 5/3/5 (Item 1 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.
(c) 2005 Thomson Derwent & ISI. All rts. reserv.

0353429 DBR Accession No.: 2004-25721 PATENT
New nucleic acid having a nucleotide sequence encoding adeno-associated
virus (AAV) Rep3 protein, and a second nucleotide sequence
encoding a AAV capsid protein, for use in producing recombinant
adeno-associated virus virions - isolation of a recombinant adeno virus
vector useful for liver disease gene therapy and for producing a virion
AUTHOR: SNYDER R O; ZOLOTUKHIN S; SAKAI Y; BYRNE B J; POTTER M R;
ZOLOTUKHIN I; LOILER S; CHIODO V A; MUZYCZKA N; HAUSWIRTH W W;
FLOTTE T R; BURGER C; RODRIGUEZ E; NASH K R; FRAITES T J
PATENT ASSIGNEE: SNYDER R O; ZOLOTUKHIN S; SAKAI Y; BYRNE B J; POTTER M
R; ZOLOTUKHIN I; LOILER S; CHIODO V A; MUZYCZKA N; HAUSWIRTH W W;
FLOTTE T R; BURGER C; RODRIGUEZ E; NASH K R; FRAITES T J 2004
PATENT NUMBER: US 20040209245 PATENT DATE: 20041021 WPI ACCESSION NO.:
2004-747203 (200473)
PRIORITY APPLIC. NO.: US 798192 APPLIC. DATE: 20040311
NATIONAL APPLIC. NO.: US 798192 APPLIC. DATE: 20040311

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?

Display 5/3/5 (Item 1 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.
(c) 2005 Thomson Derwent & ISI. All rts. reserv.
LANGUAGE: English

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Display 5/3/6 (Item 2 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.
(c) 2005 Thomson Derwent & ISI. All rts. reserv.

0323488 DBR Accession No.: 2003-24628 PATENT
New helper construct for packaging adeno-associated virus, useful for
preparing viral particles for gene therapy, encodes Cap and
Rep genes of different serotypes - virus vector construction in
packaging cell culture for disease therapy
AUTHOR: HOERER M; DUBIELZIG R; RIES S; KOSFELD-BERGAUER M
PATENT ASSIGNEE: MEDIGENE AG 2003
PATENT NUMBER: WO 200374686 PATENT DATE: 20030912 WPI ACCESSION NO.:
2003-690032 (200365)
PRIORITY APPLIC. NO.: DE 1010139 APPLIC. DATE: 20020307
NATIONAL APPLIC. NO.: WO 2003EP2351 APPLIC. DATE: 20030307
LANGUAGE: German

- end of record -

?

Display 5/3/7 (Item 3 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.
(c) 2005 Thomson Derwent & ISI. All rts. reserv.

0309214 DBR Accession No.: 2003-10999 PATENT
Altering recombinant adeno-associated virus (rAAV) transduction of
mammalian cell by contacting cell with pseudotyped rAAV having

combination of **AAV** capsid protein and rAAV genome, and agent that alters virus transduction - recombinant adeno-associated virus vector-mediated gene transfer and expression in host cell for use in gene therapy

AUTHOR: ENGELHARDT J F; YAN Z

PATENT ASSIGNEE: UNIV IOWA RES FOUND; ENGELHARDT J F; YAN Z 2003

PATENT NUMBER: WO 2003006616 PATENT DATE: 20030123 WPI ACCESSION NO.:

2003-229480 (200322)

PRIORITY APPLIC. NO.: US 305204 APPLIC. DATE: 20010713

NATIONAL APPLIC. NO.: WO 2002US21926 APPLIC. DATE: 20020712

LANGUAGE: English

- end of record -

? d s5/9/1

Display 5/9/1 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2005 BIOSIS. All rts. reserv.

0014124023 BIOSIS NO.: 200300082742

Marker rescue of adeno-associated virus (**AAV**) capsid mutants: A novel approach for chimeric *****AAV***** production.

AUTHOR: Bowles Dawn E; Rabinowitz Joseph E; Samulski R Jude (Reprint)

AUTHOR ADDRESS: Gene Therapy Center, University of North Carolina at Chapel Hill, 7119 Thurston-Bowles, CB 7352, Chapel Hill, NC, 27599-7352, USA**
USA

AUTHOR E-MAIL ADDRESS: rjs@med.unc.edu

JOURNAL: Journal of Virology 77 (1): p423-432 January 2003 2003

MEDIUM: print

ISSN: 0022-538X (ISSN print)

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: Marker rescue, the restoration of gene function by replacement of

-more-

?

Display 5/9/1 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2005 BIOSIS. All rts. reserv.

a defective gene with a normal one by recombination, has been utilized to produce novel adeno-associated virus (*****AAV*****) vectors. *****AAV***** serotype 2 (**AAV2**) clones containing wild-type terminal repeats, an intact **rep** gene, and a mutated **cap** gene, served as the template for marker rescue. When transfected alone in 293 cells, these **AAV2** mutant plasmids produced noninfectious **AAV** virions that could not bind heparin sulfate after infection with adenovirus dl309 helper virus. However, the mutation in the *****cap***** gene was corrected after cotransfection with **AAV** serotype 3 (**AAV3**) capsid DNA fragments, resulting in the production of **AAV2/AAV3** chimeric viruses. The *****cap***** genes from several independent marker rescue experiments were PCR amplified, cloned, and then sequenced. Sequencing results confirmed not only that homologous recombination occurred but, more importantly, that a mixed population of **AAV** chimeras carrying 16 to 2,200 bp throughout different regions of the type 3 **cap** gene were generated in a single marker rescue experiment. A 100% correlation was observed between infectivity and the ability of the chimeric virus to

-more-

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Display 5/9/1 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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bind heparin sulfate. In addition, many of the *****AAV2***** / *****AAV3***** chimeras examined exhibited differences at both the nucleotide and amino acid levels, suggesting that these chimeras may also exhibit unique infectious properties. Furthermore, *****AAV***** helper plasmids containing these chimeric **cap** genes were able to function in the triple

transfection method to generate recombinant ***AAV*** . Together, the
* results suggest that DNA from other AAV serotypes can rescue
AAV capsid mutants and that marker rescue may be a powerful, yet
simple, technique to map, as well as develop, chimeric AAV capsids
that display ***different*** ***serotype*** -specific properties.

DESCRIPTORS:

MAJOR CONCEPTS: Molecular Genetics--Biochemistry and Molecular Biophysics
BIOSYSTEMATIC NAMES: Parvoviridae--ssDNA Viruses, Viruses, Microorganisms
; Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia
ORGANISMS: adeno-associated virus (Parvoviridae)--gene vector, chimeric
forms uses/applications/production methods; HeLa cell line (Hominidae);

-more-

?

Display 5/9/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2005 BIOSIS. All rts. reserv.
293 cell line (Hominidae)
ORGANISMS: PARTS ETC: capsids--analysis, mutant forms
COMMON TAXONOMIC TERMS: Single-Stranded DNA Viruses; Microorganisms;
Viruses; Animals; Chordates; Humans; Mammals; Primates; Vertebrates
CHEMICALS & BIOCHEMICALS: proteins; nucleotides; amino acids
METHODS & EQUIPMENT: marker rescue techniques--genetic techniques,
laboratory techniques; PCR {polymerase chain reaction}--genetic
techniques, laboratory techniques; gene sequencing--genetic techniques
, laboratory techniques; transfection--genetic techniques, laboratory
techniques; nucleic acid sequencing--genetic techniques, laboratory
techniques
MISCELLANEOUS TERMS: biotechnology; methodology; novel approaches--
applications; gene mutations; capsid mutants--analysis; terminal
repeats
CONCEPT CODES:
03502 Genetics - General
03508 Genetics - Human

-more-

?

Display 5/9/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2005 BIOSIS. All rts. reserv.
10062 Biochemistry studies - Nucleic acids, purines and pyrimidines
10064 Biochemistry studies - Proteins, peptides and amino acids
31500 Genetics of bacteria and viruses
33502 Virology - General and methods
BIOSYSTEMATIC CODES:
03205 Parvoviridae
86215 Hominidae

- end of record -

?

? s pseudotype? and AAV?
9264 PSEUDOTYPE?
17347 AAV?
S6 216 PSEUDOTYPE? AND AAV?
? s pseudotype? (5n) AAV?
9264 PSEUDOTYPE?
17347 AAV?
S7 148 PSEUDOTYPE? (5N) AAV?
? s s7 and (adenovir? or herpes?) (5n) (helper or accessory)
148 S7
235351 ADENOVIR?
522928 HERPES?
218684 HELPER
165611 ACCESSORY
3064 (ADENOVIR? OR HERPES?) (5N) (HELPER OR ACCESSORY)
S8 11 S7 AND (ADENOVIR? OR HERPES?) (5N) (HELPER OR ACCESSORY)
? rd s8

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

...completed examining records

S9 6 RD S8 (unique items)

? d s9/3/1-6

Display 9/3/1 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2005 BIOSIS. All rts. reserv.

0014094591 BIOSIS NO.: 200300053310

Production and purification of serotype 1, 2, and 5 recombinant
adeno-associated viral vectors.

AUTHOR: Zolotukhin Sergei; Potter Mark; Zolotukhin Irene; Sakai Yoshihisa;
Loiler Scott; Fraites Thomas J; Chiodo Vince A; Phillipsberg Tina;
Muzyczka Nicholas; Hauswirth William W; Flotte Terance R; Byrne Barry J;
Snyder Richard O (Reprint)

AUTHOR ADDRESS: Powell Gene Therapy Center, College of Medicine, University
of Florida, 1600 SW Archer Road, Gainesville, FL, 32610-0266, USA**USA

AUTHOR E-MAIL ADDRESS: rsnyder@gtc.ufl.edu

JOURNAL: Methods (Orlando) 28 (2): p158-167 October 2002 2002

MEDIUM: print

ISSN: 1046-2023 (ISSN print)

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

- end of record -

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Display 9/3/2 (Item 1 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

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140037039 CA: 140(4)37039e PATENT

Methods and composition for production of pseudotyped recombinant AAV
virions

INVENTOR(AUTHOR): Snyder, Richard O.; Zolotukhin, Sergei; Sakai,
Yoshihisa; Byrne, Barry J.; Zolotukhin, Irine; Loiler, Scott; Potter, Mark
R.; Chiodo, Vince A.; Muzyczka, Nicholas; Hauswirth, William; Flotte,
Terence R.; Burger, Corina; Rodriguez, Edgardo

LOCATION: USA

ASSIGNEE: University of Florida

PATENT: PCT International ; WO 2003104413 A2 DATE: 20031218

APPLICATION: WO 2003US17933 (20030605) *US PV385864 (20020605)

PAGES: 37 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12N-000/A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM;
HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV;
MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SC; SD; SE;

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DIALOG(R)File 399:CA SEARCH(R)

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SG; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; UZ; VN; YU; ZA; ZM; ZW; AM; AZ; BY;
KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL
; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB;
GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM;
GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

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Display 9/3/3 (Item 2 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

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138182027 CA: 138(13)182027n PATENT

Adeno-associated virus vector packaging plasmid for the helper virus-free production of pseudotyped AAV particles over single transfection

INVENTOR(AUTHOR): Grimm, Dirk; Kleinschmidt, Juergen

LOCATION: Germany,

ASSIGNEE: Deutsches Krebsforschungszentrum Stiftung des Oeffentlichen Rechts

PATENT: Germany Offen. ; DE 10137283 A1 DATE: 20030227

APPLICATION: DE 10137283 (20010801)

PAGES: 10 pp. CODEN: GWXXBX LANGUAGE: German CLASS: C12N-015/864A; A61K-048/00B

- end of record -

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Display 9/3/4 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2005 Inst for Sci Info. All rts. reserv.

12051407 Genuine Article#: 676FH No. References: 0

Title: A novel recombinant **herpes** simplex virus used as **helper** virus for producing **AAV1 pseudotype** vectors

Author(s): Cao H; Pan SY; Peng M; Wu WJ; Wu XB

Corporate Source: AGTC Gene Technol Co Ltd,Beijing//Peoples R China/

Journal: MOLECULAR THERAPY, 2003, V7, N5,2 (MAY), PS351-S351

ISSN: 1525-0016 Publication date: 20030500

Publisher: ACADEMIC PRESS INC ELSEVIER SCIENCE, 525 B ST, STE 1900, SAN DIEGO, CA 92101-4495 USA

Language: English Document Type: MEETING ABSTRACT

- end of record -

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Display 9/3/5 (Item 1 from file: 357)

DIALOG(R)File 357:Derwent Biotech Res.

(c) 2005 Thomson Derwent & ISI. All rts. reserv.

0330175 DBR Accession No.: 2004-02467 PATENT

New recombinant hybrid virus having deleted adenovirus and recombinant adeno-associated virus vector genomes, useful for treating lysosomal and glycogen storage diseases, hemophilias, diabetes mellitus and Alzheimer's disease - for use in lysosomal storage disease, glycogen storage disease, hemophilia, Gaucher disease, diabetes mellitus, cystic fibrosis, Alzheimer disease, Parkinson disease, amyotrophic lateral sclerosis, epilepsy, retinal degenerative disease, cancer and infectious disease gene therapy

AUTHOR: AMALFITANO A; KOEBERL D D; SUN B

PATENT ASSIGNEE: UNIV DUKE 2003

PATENT NUMBER: WO 200392594 PATENT DATE: 20031113 WPI ACCESSION NO.: 2004-022613 (200402)

PRIORITY APPLIC. NO.: US 376397 APPLIC. DATE: 20020430

NATIONAL APPLIC. NO.: WO 2003US13323 APPLIC. DATE: 20030430

LANGUAGE: English

- end of record -

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Display 9/3/6 (Item 2 from file: 357)

DIALOG(R)File 357:Derwent Biotech Res.

(c) 2005 Thomson Derwent & ISI. All rts. reserv.

0313620 DBR Accession No.: 2003-14760 PATENT

New adeno-associated virus vector-packaging plasmid, used to prepare adeno-associated viral particles for gene therapy, requires single transfection only - vector-mediated gene transfer, expression in host cell and packaging cell culture for gene therapy

AUTHOR: GRIMM D; KLEINSCHMIDT J

PATENT ASSIGNEE: DEUT KREBSFORSCHUNGSZENTRUM 2003

PATENT NUMBER: DE 10137283 PATENT DATE: 20030227 WPI ACCESSION NO.: 2003-343980 (200333)

PRIORITY APPLIC. NO.: DE 1037283 APPLIC. DATE: 20010801

NATIONAL APPLIC. NO.: DE 1037283 APPLIC. DATE: 20010801

LANGUAGE: DE

- end of record -

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Display 9/9/1 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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0014094591 BIOSIS NO.: 200300053310

Production and purification of serotype 1, 2, and 5 recombinant
adeno-associated viral vectors.

AUTHOR: Zolotukhin Sergei; Potter Mark; Zolotukhin Irene; Sakai Yoshihisa;
Loiler Scott; Fraites Thomas J; Chiodo Vince A; Phillipsberg Tina;
Muzyczka Nicholas; Hauswirth William W; Flotte Terance R; Byrne Barry J;
Snyder Richard O (Reprint)

AUTHOR ADDRESS: Powell Gene Therapy Center, College of Medicine, University
of Florida, 1600 SW Archer Road, Gainesville, FL, 32610-0266, USA**USA

AUTHOR E-MAIL ADDRESS: rsnyder@gtc.ufl.edu

JOURNAL: Methods (Orlando) 28 (2): p158-167 October 2002 2002

MEDIUM: print

ISSN: 1046-2023 (ISSN print)

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

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Display 9/9/1 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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ABSTRACT: Recombinant adeno-associated viral (rAAV) vectors based on
serotype 2 are currently being evaluated most extensively in animals and
human clinical trials. rAAV vectors constructed from other AAV serotypes
(serotypes 1, 3, 4, 5, and 6) can transduce certain tissues more
efficiently and with different specificity than rAAV2 vectors in animal
models. Here, we describe reagents and methods for the production and
purification of **AAV2** inverted terminal repeat-containing vectors
pseudotyped with ***AAV1*** or ***AAV5*** capsids. To facilitate
pseudotyping, AAV2rep/AAV1cap and AAV2rep/AAV5cap **helper** plasmids
were constructed in an ***adenoviral*** plasmid backbone. The resultant
plasmids, pXYZ1 and pXYZ5, were used to produce rAAV1 and rAAV5 vectors,
respectively, by transient transfection. Since neither AAV5 nor AAV1
binds to the heparin affinity chromatography resin used to purify rAAV2
vectors, purification protocols were developed based on anion-exchange
chromatography. The purified vector stocks are 99% pure with titers of
1X10¹² to 1X10¹³ vector genomes/ml.

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Display 9/9/1 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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DESCRIPTORS:

MAJOR CONCEPTS: Methods and Techniques; Molecular Genetics--Biochemistry
and Molecular Biophysics

BIOSYSTEMATIC NAMES: Parvoviridae--ssDNA Viruses, Viruses, Microorganisms
; Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia

ORGANISMS: adeno-associated virus (Parvoviridae)--gene vector,
recombinant, serovar-5, serovar-2, serovar-1, serovar-3, serovar-6
; 293 cell line (Hominidae)--ATCC, human embryonic cells

COMMON TAXONOMIC TERMS: Single-Stranded DNA Viruses; Microorganisms;
Viruses; Animals; Chordates; Humans; Mammals; Primates; Vertebrates

CHEMICALS & BIOCHEMICALS: recombinant adeno-associated viral inverted
terminal repeat-containing vectors--purification, vector, production;
pXYZ1 plasmid--vector; pXYZ5 plasmid--vector; AAV2rep/AAV5cap helper
plasmid--vector, construction; AAV2rep/AAV1cap helper plasmid--vector,

construction; plasmid pAdEasy-1--vector, Stratagene, reagent
METHODS & EQUIPMENT: pseudotyping--genetic techniques, laboratory

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? e au=snyder, richard

Ref	Items	Index-term
E1	1	AU=SNYDER, RENEE PAMELA
E2	1	AU=SNYDER, REUBEN WENDELL, JR.
E3	16	*AU=SNYDER, RICHARD
E4	6	AU=SNYDER, RICHARD A
E5	17	AU=SNYDER, RICHARD A.
E6	1	AU=SNYDER, RICHARD ALLAN
E7	1	AU=SNYDER, RICHARD B.
E8	3	AU=SNYDER, RICHARD C
E9	41	AU=SNYDER, RICHARD C.
E10	2	AU=SNYDER, RICHARD CHARLES
E11	1	AU=SNYDER, RICHARD CHRISTOPHER
E12	1	AU=SNYDER, RICHARD D.

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? e au=zolotukhin, sergei

Ref	Items	Index-term
E1	2	AU=ZOLOTUKHIN, S. YU.
E2	7	AU=ZOLOTUKHIN, S.F.
E3	46	*AU=ZOLOTUKHIN, SERGEI
E4	1	AU=ZOLOTUKHIN, SERGEJ N.
E5	1	AU=ZOLOTUKHIN, SERGEJ NIKOLAEVICH
E6	1	AU=ZOLOTUKHIN, SERGEY F.
E7	2	AU=ZOLOTUKHIN, T. M.
E8	2	AU=ZOLOTUKHIN, V.
E9	48	AU=ZOLOTUKHIN, V. A.
E10	8	AU=ZOLOTUKHIN, V. D.
E11	6	AU=ZOLOTUKHIN, V. E.
E12	2	AU=ZOLOTUKHIN, V. F.

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Ref	Items	Index-term
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E3	3	AU=ZOLOTUKHIN S.E.
E4	7	AU=ZOLOTUKHIN S.I.
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E10	78	AU=ZOLOTUKHIN SERGEI
E11	2	AU=ZOLOTUKHIN SERGEY F
E12	9	AU=ZOLOTUKHIN SI

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? e au=sakai, y.

Ref	Items	Index-term
E1	3	AU=SAKAI, WILLIAM SHIGERU
E2	54	AU=SAKAI, Y
E3	1605	*AU=SAKAI, Y.
E4	2	AU=SAKAI, Y. ET AL
E5	2	AU=SAKAI, Y. ET AL.
E6	1	AU=SAKAI, Y. MATSUYAMA, Y. INOUE, K. ISHIGURO, N.
E7	6	AU=SAKAI, Y. T.
E8	7	AU=SAKAI, Y.T.
E9	5	AU=SAKAI, YAKICHI
E10	1	AU=SAKAI, YASHUHIRO

E11 4 AU=SAKAI, YASUAKI
 E12 1 AU=SAKAI, YASUBUMI

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 ? e au=potter, mark r.

Ref	Items	Index-term
E1	2	*AU=POTTER, MARK R.
E2	7	AU=POTTER, MARKUS
E3	1	AU=POTTER, MARSHALL R.
E4	5	AU=POTTER, MARTIN
E5	1	AU=POTTER, MARTIN C.
E6	1	AU=POTTER, MARTIN H.
E7	5	AU=POTTER, MARY
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E9	1	AU=POTTER, MARY C
E10	1	AU=POTTER, MARY C.
E11	1	AU=POTTER, MARY CRAWFORD
E12	1	AU=POTTER, MARY E.

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 ? e au=loiler, scott

Ref	Items	Index-term
E1	5	*AU=LOILER, SCOTT
E2	2	AU=LOILER, SCOTT A
E3	7	AU=LOILER, SCOTT A.
E4	1	AU=LOILIER CAUCHETEUX MARIE-NOELLE
E5	10	AU=LOILIER M
E6	1	AU=LOILIER MICHEL
E7	1	AU=LOILIER, GORY M.
E8	14	AU=LOILIER, M.
E9	2	AU=LOILIER, M. R.
E10	6	AU=LOILLEUX S
E11	2	AU=LOILLEUX S.
E12	1	AU=LOILLEUX, S.

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 ? e au=chiodo, vince

Ref	Items	Index-term
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E2	7	AU=CHIODO, VINCE A.
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E4	1	AU=CHIODOGRANDI F.
E5	37	AU=CHIODONI
E6	58	AU=CHIODONI A
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E9	28	AU=CHIODONI C.
E10	46	AU=CHIODONI CLAUDIA
E11	1	AU=CHIODONI F
E12	19	AU=CHIODONI G

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Ref	Items	Index-term
E1	1	AU=BURGER, CLAUDIUS M.
E2	1	AU=BURGER, CORINA
E3	25	*AU=BURGER, CORINNA
E4	2	AU=BURGER, CRAIG A
E5	1	AU=BURGER, CRAIG A.
E6	1	AU=BURGER, CURT
E7	11	AU=BURGER, CURT W.
E8	13	AU=BURGER, CYRILL
E9	295	AU=BURGER, D.
E10	4	AU=BURGER, D. A.

E11 5 AU=BURGER, D. B.
E12 3 AU=BURGER, D. C.

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? e au=fraites, thomas

Ref	Items	Index-term
E1	2	AU=FRAITES, JAMES LOUIS, JR.
E2	0	*AU=FRAITES, THOMAS
E3	2	AU=FRAITES, THOMAS J.
E4	1	AU=FRAITES, THOMAS J. R.
E5	5	AU=FRAITES, THOMAS J., JR.
E6	1	AU=FRAITES, TOM
E7	1	AU=FRAITEUR GAEL
E8	3	AU=FRAITIS F
E9	1	AU=FRAITIS F.
E10	2	AU=FRAITOT V
E11	1	AU=FRAITOT, V.
E12	66	AU=FRAITOVA D

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Ref	Items	Index-term
E1	1	AU=FRAITES T J R
E2	0	*AU=FRAITES T.
E3	2	AU=FRAITES T.J.
E4	2	AU=FRAITES T.J. JR.
E5	25	AU=FRAITES THOMAS J
E6	4	AU=FRAITES THOMAS J JR
E7	13	AU=FRAITES TJ
E8	1	AU=FRAITES, E. L.
E9	2	AU=FRAITES, ELLEN L.
E10	1	AU=FRAITES, J.
E11	2	AU=FRAITES, J. L.
E12	2	AU=FRAITES, JAMES F.

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